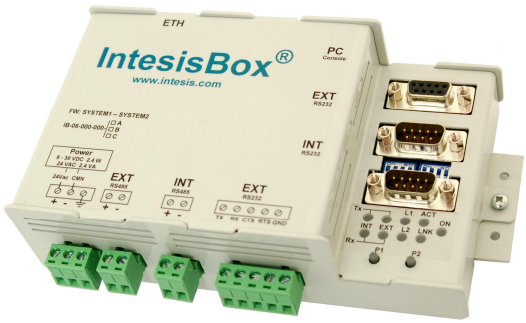
IntesisBox®

Making Building Automation go further



Intesis software

MODBUS Products

March 2009

Overview of products

Modbus Server (slave) gateways and interfaces designed for integration of third party systems into Modbus based control systems

- **IntesisBox® Modbus Slave - Mitsubishi Electric A.C. (Domestic/Mr.Slim series)**
- **IntesisBox® Modbus Slave - Mitsubishi Electric A.C. (Domestic/Mr.Slim series) with 2 digital inputs and 1 relay output**
- **IntesisBox® Modbus Server - Mitsubishi Electric A.C. (City Multi)**
- **IntesisBox® Modbus Server - BACnet/IP client**
- **IntesisBox® Modbus Server - LON**
- **IntesisBox® LON - Modbus TCP Server**
- **IntesisBox® Modbus Server - KNX**
- **IntesisBox® Modbus Server - M-Bus (EN 13757-3)**
- **IntesisBox® Modbus Server - Notifier ID3000 series**
- **IntesisBox® Modbus Server - Honeywell XLS 80**
- **IntesisBox® Modbus Server - ESSER 8007/8008**
- **IntesisBox® Modbus Server - Siemens Cerberus (CC11, CC10) ISO 1745 protocol**
- **IntesisBox® Modbus Server - Siemens FC330A**
- **IntesisBox® Modbus Server - KILSEN KSA 7xx series**
- **IntesisBox® Modbus Server - ZITON ZP3 (ZCP2-2 protocol)**
- **IntesisBox® Modbus Server - ADEMCO Algorinet (BC216-x)**
- **IntesisBox® Modbus Server - ADEMCO Galaxy (SIA Protocol)**

Modbus master (client) gateways designed for integration of Modbus devices or systems into other control systems (BACnet, KNX....)

- **IntesisBox® KNX - Modbus RTU master**
- **IntesisBox® KNX - Modbus TCP master**
- **IntesisBox® BACnet/IP server - Modbus RTU master**

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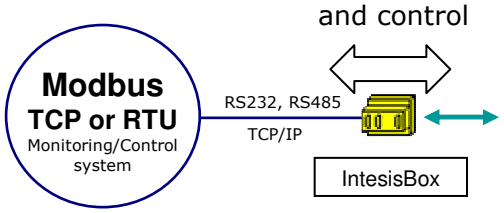
IntesisBox® Modbus Server series

Modbus Server (slave) gateways and interfaces designed for integration of third party systems into Modbus based control systems



BMS
SCADA
HMI
TouchPanel
PC
PLC

Media

RS232
RS485
Ethernet
LON TP/FT-10
KNX TP-1 (EIB)

Protocols

BACnet
LonWorks
KNX EIB
M-Bus
Proprietary

Systems

HVAC
Air Conditioning
Chillers/Heaters
Thermostats
Fancoil controllers
Room controllers

Metering
Electricity Meters
Energy meters

Fire panels

Security

Manufacturers

Daikin
Mitsubishi Electric
Mitsubishi Heavy
Toshiba
Fujitsu
General
LG

Trane

Kiebak & Peter

Merlin Gerin
Kamstrup

Honeywell
Notifier
Esser
Siemens
Cerberus
Kilsen

Ademco

And many others

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IntesisBox®

www.intesis.com

Intesis software

IntesisBox® Modbus Slave - Mitsubishi Electric A.C.
(Domestic/Mr.Slim series)

Order Code: ME-AC-MBS-1

Modbus RTU slave interface for Domestic & Mr.Slim (commercial) series of Mitsubishi Electric air conditioners.

- The ME-AC-MBS-1 interface has been designed in co-operation with Mitsubishi Electric to offer full monitoring/control of Domestic & Mr.Slim series of air conditioners by any Modbus RTU master device.

- It connects to the Modbus RTU network (RS485 bus) in one side, and directly to the PCB of the A.C. indoor unit in the other side, no external power is required. The cable to connect to the A.C. indoor unit is also included in the scope of delivery of the interface.

- Each A.C. indoor unit to integrate requires one ME-AC-MBS-1 interface. The interface in mountable on DIN rail, wall, or even inside the A.C. indoor unit in some models. Reduced dimensions 90 x 53 x 58 mm.

- Easy configuration (slave address, baud rate, A.C. model) by means of Modbus registers as well as on-board DIP-switches externally accessible. Slave address can be from 1 to 254, which means that up to 254 A.C. indoor units can be controlled by a single Modbus master device (repeaters may be required in the RS485 bus for long distances or when more than 32 devices are connected).

- Simultaneous use of the A.C. IR remote control and the ME-AC-MBS-1 is allowed, the same control functions of the IR remote control are possible with the ME-AC-MBS-1, and some others really useful as for example to stop the unit when the window of the room is open.

- Fully bi-directional monitoring and control of the A.C. unit: Operation Mode, Set Point and Ambient Temperature, Vane Position, Alarms…

Leaflet available at **http://www.intesis.com/pdf/IntesisBox_ME_AC_MBS_1_leaflet_eng.pdf**

User manual with full technical details available at **http://www.intesis.com/pdf/IntesisBox_ME_AC_MBS_1_manual_eng.pdf**

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IntesisBox® Modbus Slave - Mitsubishi Electric A.C.

(Domestic/Mr.Slim series) with 2 digital inputs and 1 relay output

Order Code: ME-AC-MBS-1-2I1O

NEW

Available April' 09

Modbus RTU slave interface for Domestic & Mr.Slim (commercial) series of Mitsubishi Electric air conditioners, with 2 general purpose digital inputs and 1 relay contact output.

- This interface has the same features as the ME-AC-MBS-1 and also incorporates 2 general purpose digital inputs and 1 relay dry contact output. It is specially indicated for its use to monitor/control Mr.Slim air conditioners in hotel rooms, allowing to monitor the occupancy of the room by a card holder connected to one digital input, and the window contact connected to the other digital input to switch off the air conditioner when the window is open, and use the relay output to drive lighting, etc. With just this cost affordable interface, a complete and efficient control of the room air conditioning and lighting can be achieved by any Modbus enabled control system.

- It connects to the Modbus RTU network (RS485 bus) in one side, and directly to the PCB of the A.C. indoor unit in the other side, no other external power is required. The cable to connect to the A.C. indoor unit is also included in the scope of delivery of the interface. RS485 bus and I/O connections is by means of plug in screw terminal blocks.

- Each A.C. indoor unit to integrate requires one interface. The interface in mountable on DIN rail, wall, or even inside the A.C. indoor unit in some models. Reduced dimensions 90 x 53 x 58 mm.

- Easy configuration (slave address, baud rate, A.C. model) by means of Modbus registers as well as on-board DIP-switches externally accessible. Slave address can be from 1 to 254, which means that up to 254 A.C. indoor units can be controlled by a single Modbus master device (repeaters may be required in the RS485 bus for long distances or when more than 32 devices are connected).

- Simultaneous use of the A.C. IR remote control and the ME-AC-MBS-1 is allowed, the same control functions of the IR remote control are possible with the ME-AC-MBS-1, and some others really useful as for example to stop the unit when the window of the room is open.

- Fully bi-directional monitoring and control of the A.C. unit: Operation Mode, Set Point and Ambient Temperature, Vane Position, Alarms…

Datasheet with full technical details will be soon available, ask us for more details.

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IntesisBox® Modbus Server - Mitsubishi Electric A.C. (City Multi)

Order Code: ME-AC-MBS-50 / ME-AC-MBS-100

Modbus gateway for City Multi (professional) series of Mitsubishi Electric air conditioners.

- This gateway has been designed in co-operation with Mitsubishi Electric to offer full monitoring/control of City Multi (professional) series of air conditioners by any Modbus master or client device (RTU or TCP).

- It connects directly to the Modbus network in one side, and in the other side it communicates with the City Multi system through the Mitsubishi Electric G-50A or GB-50A interface. *For this integration it is required the Mitsubishi Electric G-50A or GB-50A interface be installed in the City Multi system, the G50 gives access to up to 50 groups of A.C. indoor units.*

- Independent monitoring/control (bi-directional) from Modbus of each group of A.C. indoor units, of multiple parameters (Ambient Temperature, Set Point Temperature, Operation Mode, Fan Speed…). *In the City Multi system the control unit is the group of indoor units, and each group can have from 1 to 16 associated indoor units. Nevertheless, individual control of single indoor units is also possible by associating a single indoor unit per each group in the G50.*

- ME-AC-MBS-50 allows control of up to 50 groups of A.C. units, ME-AC-MBS-100 allows control of up to 100 groups.

- All the functions allowed by the A.C. remote control are also allowed from Modbus through the IntesisBox.

- IntesisBox Modbus Server series are configured using *LinkBoxMB,* a software tool for windows™ which is supplied along with the purchase of IntesisBox with no additional cost. *Demo configuration files are also supplied for LinkBoxMB with no additional cost, making the configuration of IntesisBox for this integration extremely easy and quick, almost plug & play.*

Datasheet with full technical details, examples of use, connection and more,
available at **http://www.intesis.com/pdf/IntesisBox_Modbus_Server_ME_G50_datasheet_eng.pdf**

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IntesisBox® Modbus Server - BACnet/IP client

Order Code: IBOX-MBS-BAC-A / IBOX-MBS-BAC-B

Gateway for monitor and control VRV air conditioning systems of the main manufacturers from Modbus (RTU or TCP) master or client devices (SCADA, BMS, PLC, HMI, TouchPanels…), and in general to monitor/control any BACnet/IP system or device from Modbus.

- IBOX-MBS-BAC-A and IBOX-MBS-BAC-B have been designed to offer a full integration (monitor and control) of DAIKIN VRV air conditioners from Modbus control systems, specially suited for big installations. *The gateway not only allows DAIKIN integration but many other air conditioning brands, and in general integration into Modbus of any BACnet/IP device or system.*

- It connects directly to the Modbus network in one side (RS232, RS485, ETH), and in the other side it communicates via BACnet/IP to the DAIKIN system through the Daikin D-BACS interface. *The Daikin D-BACS BACnet interface (ref. DMS502B51) is required to be installed in the Daikin system for this integration.*

- Independent monitoring/control (bi-directional) from Modbus of each DAIKIN indoor unit or group of units, of multiple parameters (Ambient and Set Point Temperature, Operation Mode, Fan Speed…).

- IBOX-MBS-BAC-A supports up to 500 points and communication to one BACnet/IP device, IBOX-MBS-BAC-B supports up to 4000 points and communication to up to 16 BACnet/IP devices.

- IntesisBox Modbus Server series are configured using *LinkBoxMB,* a software tool for windows™ which is supplied along with the purchase of IntesisBox with no additional cost. *Demo configuration files are also supplied for LinkBoxMB with no additional cost, making the configuration of IntesisBox for integration of many brands of air conditioning (DAIKIN, Mitsubishi Heavy, Toshiba, Fujitsu-General…) extremely easy and quick, almost plug & play.*

Datasheet with full technical details, examples of use, connection and more,
available at **http://www.intesis.com/pdf/IntesisBox_Modbus_Server_Bacnet_IP_Client_datasheet_eng.pdf**

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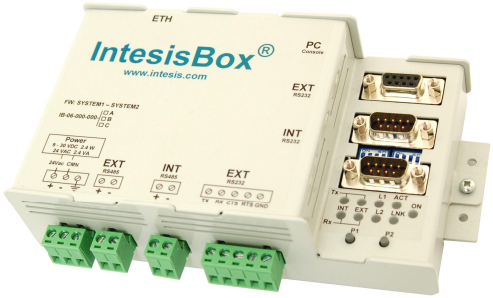
IntesisBox® Modbus Server - LON

Order Code: IBOX-MBS-LON-A / IBOX-MBS-LON-B



Gateway for monitor and control of VRV air conditioning systems of the main manufacturers from Modbus (RTU or TCP) master or client devices (SCADA, BMS, PLC, HMI, TouchPanels…), and in general to monitor/control any LON (TP/FT-10) system or device from Modbus.

- IBOX-MBS-LON-A and IBOX-MBS-LON-B have been designed to offer a full integration (monitoring and control) of DAIKIN VRV air conditioners into Modbus systems, specially suited for small / medium size installations. *The gateway not only allows DAIKIN integration but many other air conditioning brands, and in general integration into Modbus of any LON (TP/FT-10) device or system.*

- It connects directly to the Modbus network in one side (RS232, RS485, ETH), and in the other side it communicates via LON (TP/FT-10) to the DAIKIN system through the Daikin DMS-IF interface. *The Daikin DMS-IF LonWorks® interface (ref. DMS504B51) is required to be installed in the Daikin system for this integration.*

- Independent monitoring/control (bi-directional) from Modbus of each Daikin indoor unit or group of units, of multiple parameters (Ambient and Set Point Temperature, Operation Mode, Fan Speed…).

- IBOX-MBS-LON-A supports up to 500 points and communication to up to 64 LON devices, IBOX-MBS-LON-B supports up to 4000 points and communication to up to 128 LON devices.

- IntesisBox Modbus Server series are configured using *LinkBoxMB,* a software tool for windows™ which is supplied along with the purchase of IntesisBox with no additional cost. *Demo configuration files are also supplied for LinkBoxMB with no additional cost, making the configuration of IntesisBox for integration of many brands of air conditioning (DAIKIN, Mitsubishi Heavy, Mitsubishi Electric, Toshiba, Fujitsu-General, Samsung, LG…) extremely easy and quick, almost plug & play.*

Datasheet with full technical details, examples of use, connection and more,
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IntesisBox® LON - Modbus TCP Server

Order Code: IBOX-LON-MBS-A / IBOX-LON-MBS-B

NEW

Available April' 09

Gateway for full integration of LonWorks networks with Modbus TCP control systems (BMS, SCADA, PLC…)

- IBOX-LON-MBS-A/B is a powerful and cost effective solution that will allow you to fully integrate Lonworks networks with Modbus TCP control systems (BMS, SCADA, PLC, etc).
- With a Modbus TCP server port in one side, and direct connection to LonWorks networks via TP/FT-10 channel in the other side.
- Fully bi-directional integration of Modbus and LonWorks.
- Allows *bindings* of its internal SNVTs in LonWorks side using standard LonWorks commissioning tools (LonMaker…). The gateway is seen as one more node into the LonWorks network allowing all standard commissioning features of LonWorks. This allows monitoring and control of the LonWorks network from a SCADA or PLC with Modbus TCP client driver, and without overloading the LonWorks network by a continuous polling of LonWorks variables.
- IntesisBox is a Modbus TCP server device in the Modbus side, with ethernet 10/100 Mbps port.
- IBOX-LON-MBS-A allows integration of up to 1000 points, IBOX-LON-MBS-B up to 4000 points.
- IBOX-LON-MBS-A/B are configured using *LinkBoxLON,* a software tool for windows™ with a powerful and friendly graphical interface for an easy and quick gateway's configuration procedure. LinkBoxLON is supplied along with the purchase of IntesisBox with no additional cost.

Datasheet with full technical details, examples of use, connection and more,
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IntesisBox® Modbus Server - KNX

Order Code: IBOX-MBS-KNX-A / IBOX-MBS-KNX-B

NEW

Cost effective version with capacity of 100 points

Order code

IBOX-MBS-KNX-100

Gateway for monitor and control KNX EIB installations from Modbus (RTU or TCP) master or client devices (SCADA, BMS, PLC, HMI, TouchPanels…)

- This gateway has been designed to offer full monitoring and control of KNX EIB installations from Modbus RTU or TCP control systems (SCADA, BMS, PLC…).
- Connects directly to the EIB bus in one side, and in the other side it communicates to the monitoring/control system via Modbus RTU or TCP protocol.
- Bi-directional monitoring and control between KNX and Modbus.
- Allows Modbus TCP or Modbus RTU (RS232 or RS485), software selectable.
- IBOX-MBS-KNX-100 supports up to 100 points, IBOX-MBS-KNX-A up to 500 points, and IBOX-MBS-KNX-B up to 3000 points.
- IntesisBox Modbus Server series are configured using *LinkBoxMB,* a software tool for windows™ which is supplied along with the purchase of IntesisBox with no additional cost. *Demo configuration files are also supplied for LinkBoxMB with no additional cost, making the configuration of IntesisBox for this integration extremely easy and quick, almost plug & play.*

Datasheet with full technical details, examples of use, connection and more,
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IntesisBox® Modbus Server - M-Bus (EN 13757-3)

Order Code: IBOX-MBS-MBUS-A / IBOX-MBS-MBUS-B

NEW

Cost effective version with capacity of 100 points

Order code

IBOX-MBS-MBUS-100

Gateway for the monitoring of M-Bus meters from Modbus (RTU or TCP) master or client devices (SCADA, BMS, PLC, HMI, TouchPanels…)

- This gateway has been designed to monitor M-Bus meters (EN 13757-3) from any Modbus master or client device (SCADA, BMS, PLC…).
- It connects to the M-Bus system through an external RS232 or RS485 to M-Bus level converter in one side, and in the other side it communicates with the monitoring/control system with Modbus RTU or TCP protocol.
- Allows Modbus TCP (Ethernet) or Modbus RTU (RS232 or RS485) communication, configurable by software. *IntesisBox is a server device in case of Modbus TCP communication, or a slave device in case of Modbus RTU communication.*
- IBOX-MBS-MBUS-100 allows monitoring of up to 10 M-Bus meters and a maximum of 100 internal data points, IBOX-MBS-MBUS-A allows monitoring of up to 60 M-Bus meters and a maximum of 600 internal data points, and IBOX-MBS-MBUS-B allows monitoring of up to 500 M-Bus meters and a maximum of 2000 internal data points.
- IntesisBox Modbus Server series are configured using *LinkBoxMB,* a software tool for windows™ which is supplied along with the purchase of IntesisBox with no additional cost. *Demo configuration files are also supplied for LinkBoxMB with no additional cost, making the configuration of IntesisBox for this integration extremely easy and quick, almost plug & play.*

Datasheet with full technical details, examples of use, connection and more,
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IntesisBox® Modbus Server - Notifier ID3000 series

Order Code: IBOX-MBS-NID3000

Gateway for monitor and control Notifier ID3000 / ID3002 / ID60 / ID50 fire panels from Modbus master or client devices (SCADA, BMS, PLC, HMI, TouchPanels…)

- Monitor & Control your network of Notifier fire panels remotely from your Control Center using any commercial SCADA or monitoring software with Modbus TCP driver.
- IntesisBox allows Modbus TCP (Ethernet) or Modbus RTU (RS232 or RS485) communication, configurable by software. *IntesisBox is a server device in case of Modbus TCP communication, or a slave device in case of Modbus RTU communication.*
- IntesisBox connects to the RS232 port of the Notifier panel, either through the RS232 port of the mother board, or through the isolated ISO-RS232 port (optional card).
- Monitoring of the Notifier elements (detectors, outputs…) through independent Modbus registers. The value in the Modbus register indicating the state of the panel's element is fully configurable. Commands toward the panel are also supported (reset, silence, test elements…).
- Fixed Modbus address map, the register number identifies the element into the Notifier panel. Simple configuration, no point's configuration needs to be entered, just the communication parameters (IP address, baud rate…). One full panel capacity is supported.
- IntesisBox Modbus Server series are configured using *LinkBoxMB,* a software tool for windows™ which is supplied along with the purchase of IntesisBox with no additional cost. *The user interface of LinkBoxMB allows simulating the values of the Modbus registers without the need to be physically connected to the panel, very useful while in commissioning phase.*

Datasheet with full technical details, examples of use, connection and more,
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IntesisBox® Modbus Server - Honeywell XLS 80

Order Code: IBOX-MBS-XLS80

Gateway for monitor and control Honeywell XLS 80 fire panels from Modbus master or client devices (SCADA, BMS, PLC, HMI, TouchPanels…)

- Monitor & Control your network of Notifier fire panels remotely from your Control Center using any commercial SCADA or monitoring software with Modbus TCP driver.
- IntesisBox allows Modbus TCP (Ethernet) or Modbus RTU (RS232 or RS485) communication, configurable by software. *IntesisBox is a server device in case of Modbus TCP communication, or a slave device in case of Modbus RTU communication.*
- IntesisBox connects to the RS232 port of the Honeywell panel, either through the RS232 port of the mother board, or through the isolated ISO-RS232 port (optional card).
- Monitoring of the Honeywell elements (detectors, outputs…) through independent Modbus registers. The value in the Modbus register indicating the state of the panel's element is fully configurable. Commands toward the panel are also supported (reset, silence, test elements…).
- Fixed Modbus address map, the register number identifies the element into the Honeywell panel. Simple configuration, no point's configuration needs to be entered, just the communication parameters (IP address, baud rate…). One full panel capacity is supported.
- IntesisBox Modbus Server series are configured using *LinkBoxMB,* a software tool for windows™ which is supplied along with the purchase of IntesisBox with no additional cost. *The user interface of LinkBoxMB allows simulating the values of the Modbus registers without the need to be physically connected to the panel, very useful while in commissioning phase.*

Datasheet with full technical details, examples of use, connection and more,
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IntesisBox® Modbus Server - ESSER 8007/8008

Order Code: IBOX-MBS-ESSER

Gateway for monitor and control ESSER 8007 / 8008 fire panels from Modbus master or client devices (SCADA, BMS, PLC, HMI, TouchPanels…)

- Monitor & Control your network of ESSER fire panels remotely from your Control Center using any commercial SCADA or monitoring software with Modbus TCP driver.
- IntesisBox allows Modbus TCP (Ethernet) or Modbus RTU (RS232 or RS485) communication, configurable by software. *IntesisBox is a server device in case of Modbus TCP communication, or a slave device in case of Modbus RTU communication.*
- ESSER IDT protocol, either over RS485 or RS232 serial line is supported.
- Monitoring of the ESSER elements (detectors, outputs, zones) through independent Modbus registers. The Modbus address map is fully configurable. The states desired to be translated to Modbus are also selectable (0-Normal, 1-Alarm…7-Test).
- Integration of up to 3000 points is supported by IntesisBox. Commands toward the panel are also supported (reset, disconnect and test of elements…).
- IntesisBox Modbus Server series are configured using *LinkBoxMB,* a software tool for windows™ which is supplied along with the purchase of IntesisBox with no additional cost. *The user interface of LinkBoxMB allows simulating the values of the Modbus registers without the need to be physically connected to the panel, very useful while in commissioning phase.*

Datasheet with full technical details, examples of use, connection and more,
available at **http://www.intesis.com/pdf/IntesisBox_Modbus_Server_ESSER_datasheet_eng.pdf**

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IntesisBox® Modbus Server - Siemens Cerberus (CC11, CC10)

ISO 1745 protocol

Order Code: IBOX-MBS-CERBERUS

Gateway for monitor and control Siemens AlgoRex / Cerberus fire detection systems (CS11, CS10…) from Modbus master or client devices (SCADA, BMS, PLC, HMI, TouchPanels…)

- Monitor & Control your network of CERBERUS fire panels remotely from your Control Center using any commercial SCADA or monitoring software with Modbus TCP driver.

- IBOX-MBS-CERBERUS has been designed to monitor and control Siemens Cerberus fire detection systems (equipped with BMS interface providing ISO 1745 protocol through serial port RS232), from a Modbus master or client device. Several panels connected in network can be integrated using just one IntesisBox, up to 5000 points in total.

- IntesisBox connects directly to the serial port RS232 of the Cerberus interface providing ISO 1745 protocol in one side, and in the other side to the Modbus network, via TCP (Ethernet) or RTU (RS232 or RS485) configurable by software.

- Immediate availability of the states of Cerberus elements in IntesisBox (event driven protocol). IntesisBox has a fully configurable table associating Cerberus elements with Modbus register addresses, also the value desired in Modbus to indicate any possible state (alarm, fault…) is fully configurable.

- Commands toward Cerberus are allowed (Reset, Test, AckAlarm…), the value to use in Modbus for each command is configurable. Date & time synchronization of Cerberus can be done by writing in specific Modbus registers enabled for this.

- IntesisBox Modbus Server series are configured using *LinkBoxMB,* a software tool for windows™ which is supplied along with the purchase of IntesisBox with no additional cost. *The user interface of LinkBoxMB allows simulating the values of the Modbus registers without the need to be physically connected to the panel, very useful while in commissioning phase.*

Datasheet with full technical details, examples of use, connection and more,
available at **http://www.intesis.com/pdf/IntesisBox_Modbus_Server_Cerberus_ISO1745_datasheet_eng.pdf**

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IntesisBox® Modbus Server - Siemens FC330A

Order Code: IBOX-MBS-FC330A

Gateway for monitor and control Siemens FC330A fire detection systems from Modbus master or client devices (SCADA, BMS, PLC, HMI, TouchPanels…)

- Monitor & Control your network of CERBERUS fire panels remotely from your Control Center using any commercial SCADA or monitoring software with Modbus TCP driver.
- IBOX-MBS-FC330A has been designed to monitor Siemens FC330A fire panels from a Modbus master or client device.
- IntesisBox connects directly to the serial port RS232 of the FC330A panel in one side, and to the Modbus network in the other side, via TCP (Ethernet) or RTU (RS232 or RS485) configurable by software.
- States of Zones, Control Zones and Inputs are monitored through independent Modbus registers, each possible state is indicated by a predefined value in Modbus (0-Normal, 1-Disconnected, 2-Local Alarm UnAck…). Commands toward the FC330A panel are also allowed (Ack, Reset…).
- Fixed Modbus address map, the register number identifies the element (zone, input…) into the FC330A panel. Simple configuration, no point's configuration needs to be entered, just the communication parameters (IP address, baud rate…). One full panel capacity is supported.
- IntesisBox Modbus Server series are configured using *LinkBoxMB,* a software tool for windows™ which is supplied along with the purchase of IntesisBox with no additional cost. *The user interface of LinkBoxMB allows simulating the values of the Modbus registers without the need to be physically connected to the panel, very useful while in commissioning phase.*

Datasheet with full technical details, examples of use, connection and more,
soon available at **http://www.intesis.com/pdf/IntesisBox_Modbus_Server_FC330A_datasheet_eng.pdf**

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IntesisBox® Modbus Server - KILSEN KSA 7xx series

Order Code: IBOX-MBS-KILSEN

Gateway for monitor KILSEN fire detection systems from Modbus master or client devices (SCADA, BMS, PLC, HMI, TouchPanels…)

- Monitor your network of KILSEN KSA 7xx series fire panels remotely from your Control Center using any commercial SCADA or monitoring software with Modbus TCP driver.
- IBOX-MBS-KILSEN has been designed to monitor KILSEN fire panels from a Modbus master or client device.
- IntesisBox connects directly to the serial port RS232 of the KILSEN panel in one side, and to the Modbus network in the other side, via TCP (Ethernet) or RTU (RS232 or RS485) configurable by software.
- States of Zones, and Elements are monitored through independent Modbus registers, each possible state is indicated by a predefined value in Modbus (0-Normal, 1-Alarm, 2-PreAlarm, 3-Fault, 4-Disconnected).
- Fixed Modbus address map, the register number identifies the element or zone into the panel. Simple configuration, no point's configuration needs to be entered, just the communication parameters (IP address, baud rate…). One full panel capacity is supported.
- IntesisBox Modbus Server series are configured using *LinkBoxMB,* a software tool for windows™ which is supplied along with the purchase of IntesisBox with no additional cost. *The user interface of LinkBoxMB allows simulating the values of the Modbus registers without the need to be physically connected to the panel, very useful while in commissioning phase.*

Datasheet with full technical details, examples of use, connection and more,
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IntesisBox® Modbus Server - ZITON ZP3 (ZCP2-2 protocol)

Order Code: IBOX-MBS-ZITON

Gateway for monitor ZITON ZP3 fire panels from Modbus master or client devices (SCADA, BMS, PLC, HMI, TouchPanels…)

- Monitor your network of ZITON fire panels remotely from your Control Center using any commercial SCADA or monitoring software with Modbus TCP driver.
- IBOX-MBS-ZITON has been designed to monitor ZITON fire panels from a Modbus master or client device.
- IntesisBox connects directly to the serial port RS232 of the ZITON panel in one side, and to the Modbus network in the other side, via TCP (Ethernet) or RTU (RS232 or RS485) configurable by software.
- States of Elements are monitored through independent Modbus registers, each possible state (Normal, Fire Alarm, PreAlarm…) can be indicated in Modbus by the desired value, freely configurable.
- Fixed Modbus address map, the register number identifies the element into the panel. Simple configuration, no point's configuration needs to be entered, just the communication parameters (IP address, baud rate…). Elements can also be grouped allowing to monitor several elements through a single Modbus register (a kind virtual zones). One full panel capacity is supported.
- IntesisBox Modbus Server series are configured using *LinkBoxMB,* a software tool for windows™ which is supplied along with the purchase of IntesisBox with no additional cost. *The user interface of LinkBoxMB allows simulating the values of the Modbus registers without the need to be physically connected to the panel, very useful while in commissioning phase.*

Datasheet with full technical details, examples of use, connection and more,
soon available at **http://www.intesis.com/pdf/IntesisBox_Modbus_Server_ZITON_datasheet_eng**

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IntesisBox® Modbus Server - ADEMCO Algorinet (BC216-x)

Order Code: IBOX-MBS-ALGORI

Gateway for monitor ADEMCO Algorinet (BC216-x) fire detection systems from Modbus master or client devices (SCADA, BMS, PLC, HMI, TouchPanels…)

- Monitor & Control your network of ADEMCO Algorinet fire panels remotely from your Control Center using any commercial SCADA or monitoring software with Modbus TCP driver.

- IntesisBox connects directly to the serial port RS232 of the Algorinet panel and allows Modbus TCP (Ethernet) or Modbus RTU (RS232 or RS485) communication, configurable by software. *IntesisBox is a server device in case of Modbus TCP communication, or a slave device in case of Modbus RTU communication.*

- Fully configurable Modbus address map, the register address for each element into the panel can be freely assigned, offering a very powerful and flexible configuration. Integration of up to 5000 points is supported.

- Monitoring of the Algorinet elements (detectors, outputs…) through independent Modbus registers. The value in the Modbus register indicating the state of the panel's element is fully configurable. Commands toward the panel are also supported (reset, silence, test elements…) and the values to use from Modbus for each command are also fully configurable.

- IntesisBox Modbus Server series are configured using *LinkBoxMB,* a software tool for windows™ which is supplied along with the purchase of IntesisBox with no additional cost. *The user interface of LinkBoxMB allows simulating the values of the Modbus registers without the need to be physically connected to the panel, very useful while in commissioning phase.*

Datasheet with full technical details, examples of use, connection and more,
soon available at **http://www.intesis.com/pdf/IntesisBox_Modbus_Server_Algorinet_datasheet_eng.pdf**

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IntesisBox® Modbus Server - ADEMCO Galaxy (SIA Protocol)

Order Code: IBOX-MBS-GALAXY

Gateway for monitor and control ADEMCO Galaxy (SIA protocol) security systems from Modbus master or client devices (SCADA, BMS, PLC, HMI, TouchPanels…)

- Monitor & Control your network of ADEMCO Galaxy security systems remotely from your Control Center using any commercial SCADA or monitoring software with Modbus TCP driver.

- IntesisBox connects directly to the serial port RS232 of the Galaxy panel and allows Modbus TCP (Ethernet) or Modbus RTU (RS232 or RS485) communication, configurable by software*. IntesisBox is a server device in case of Modbus TCP communication, or a slave device in case of Modbus RTU communication.*

- Fixed Modbus address map, the register number identifies the element into the panel. Simple configuration, no point's configuration needs to be entered, just the communication parameters (IP address, baud rate…). One full panel capacity is supported.

- Monitoring of the Galaxy elements (groups, zones, outputs…) through independent Modbus registers. The zones in use (from 1 to 512) can be selected. Commands toward the panel are also supported (reset, force set, omit zone…).

- IntesisBox Modbus Server series are configured using *LinkBoxMB,* a software tool for windows™ which is supplied along with the purchase of IntesisBox with no additional cost. *The user interface of LinkBoxMB allows simulating the values of the Modbus registers without the need to be physically connected to the panel, very useful while in commissioning phase.*

Datasheet with full technical details, examples of use, connection and more,
soon available at **http://www.intesis.com/pdf/IntesisBox_Modbus_Server_Galaxy_datasheet_eng.pdf**

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IntesisBox® BACnet/IP server KNX EIB MODBUS

Modbus master (client) gateways designed for integration of Modbus devices or systems into other control systems (BACnet, KNX....)

Manufacturers

Honeywell
Delta Building
Alerton
KMC
Siemens
ABB
Merten
JUNG
Berker
Theben

And many others

Protocols

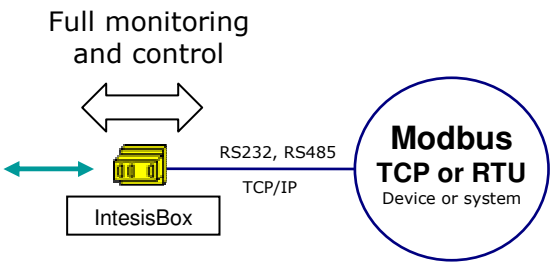
BACnet

KNX EIB

Media

Ethernet

KNX TP-1 (EIB)



Heaters
Chillers
Heat Pumps
Heating floors
Air conditioners
Thermostats
Electricity meters
PLCs
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Intesis software

IntesisBox® KNX - Modbus RTU master

Order Code: IBOX-KNX-MBRTU-A / IBOX-KNX-MBRTU-B

NEW

Cost effective version with capacity of 100 points

Order code

IBOX-KNX-MBRTU-100

Gateway for integration of Modbus RTU slave devices (thermostats, electricity meters, chillers, heating floors, PLCs…) into KNX EIB installations.

- IBOX-KNX-MBRTU-A and IBOX-KNX-MBRTU-B have been designed to offer full monitoring/control of Modbus slave devices or systems from KNX EIB installations.
- Specially suited for integration of thermostats, electricity meters, chillers, heating floors, PLCs… into KNX EIB.
- Connects directly to the EIB bus in one side, and in the other side it communicates to the system to integrate via Modbus RTU.
- Supports Modbus RTU protocol over RS232 or RS485.
- Bi-directional monitoring and control, register addresses, functions and data types fully configurable in the Modbus interface.
- IBOX-KNX-MBRTU-100 supports up to 100 points, IBOX-KNX-MBRTU-A up to 500 points, and IBOX-KNX-MBRTU-B up to 3000 points. All of them allow to integrate up to 254 Modbus slave devices.
- IntesisBox KNX series are configured using *LinkBoxEIB,* a software tool for windows™ which is supplied along with the purchase of IntesisBox with no additional cost. *Demo configuration files are also supplied for LinkBoxEIB with no additional cost, making the configuration of IntesisBox for this integration extremely easy and quick, almost plug & play.*

Datasheet with full technical details, examples of use, connection and more, available at **http://www.intesis.com/pdf/IntesisBox_KNX_Modbus_RTU_master_datasheet_eng.pdf**

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IntesisBox® KNX - Modbus TCP master

Order Code: IBOX-KNX-MBTCP-A / IBOX-KNX-MBTCP-B

NEW

Cost effective version with capacity of 100 points

Order code

IBOX-KNX-MBTCP-100

Gateway for integration of Modbus TCP slave devices (thermostats, electricity meters, chillers, heating floors, heat pumps, PLCs…) into KNX EIB installations.

- IBOX-KNX-MBTCP-A and IBOX-KNX-MBTCP-B have been designed to offer full monitoring/control of Modbus slave devices or systems from KNX EIB installations.
- Specially suited for integration of thermostats, electricity meters, chillers, heating floors, heat pumps, PLCs… into KNX EIB.
- Connects directly to the EIB bus in one side, and in the other side it communicates to the system to integrate via Modbus TCP.
- Supports Modbus protocol over TCP/IP.
- Bi-directional monitoring and control, register addresses, functions and data types fully configurable in the Modbus interface.
- IBOX-KNX-MBTCP-100 supports up to 100 points, IBOX-KNX-MBTCP-A up to 500 points, and IBOX-KNX-MBTCP-B up to 3000 points.
- IntesisBox KNX series are configured using *LinkBoxEIB,* a software tool for windows™ which is supplied along with the purchase of IntesisBox with no additional cost. *Demo configuration files are also supplied for LinkBoxEIB with no additional cost, making the configuration of IntesisBox for this integration extremely easy and quick, almost plug & play.*

Datasheet with full technical details, examples of use, connection and more, available at **http://www.intesis.com/pdf/IntesisBox_KNX_Modbus_TCP_master_datasheet_eng.pdf**

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IntesisBox® BACnet/IP server - Modbus RTU master

Order Code: IBOX-BAC-MBRTU-A / IBOX-BAC-MBRTU-B

NEW

Cost effective version with capacity of 100 points

Order code

IBOX-BAC-MRTU-100

Gateway for integration of Modbus RTU slave devices (thermostats, electricity meters, chillers, heating floors, PLCs…) into BACnet/IP control systems.

- This gateway has been designed to offer full monitoring/control of Modbus slave devices from BACnet/IP networks.
- Specially suited for integration of thermostats, electricity meters, chillers, heating floors, PLCs… into BACnet/IP control systems (BMS, SCADA, PLCs…).
- Connects directly to the BACnet/IP network in one side, and in the other side it communicates with the device to integrate via Modbus RTU. Supports Modbus RTU protocol over RS232 or RS485, software selectable. IntesisBox is a Modbus RTU master device.
- Bi-directional monitoring and control of Modbus slave devices. Register addresses, functions and data types fully configurable in the Modbus interface. COV and Polling supported in the BACnet/IP interface. Modbus devices' points available in BACnet through *present_value* property of AI, AO, AV, DI, DO, DV, MI, MO, MV objects.
- IBOX-BAC-MBRTU-100 supports up to 100 points, IBOX-BAC-MBRTU-A up to 500 points, and IBOX-KNX-MBRTU-B up to 3000 points. All of them allow integration of up to 254 Modbus RTU slave devices.
- IntesisBox BACnet/IP Server series are configured using *LinkBoxBacnet,* a software tool for windows™ which is supplied along with the purchase of IntesisBox with no additional cost. *Demo configuration files are also supplied for LinkBoxBacnet with no additional cost, making the configuration of IntesisBox for this integration extremely easy and quick, almost plug & play.*

Datasheet with full technical details, examples of use, connection and more,
available at **http://www.intesis.com/pdf/IntesisBox_BACnet_IP_server_Modbus_RTU_master_datasheet_eng.pdf**

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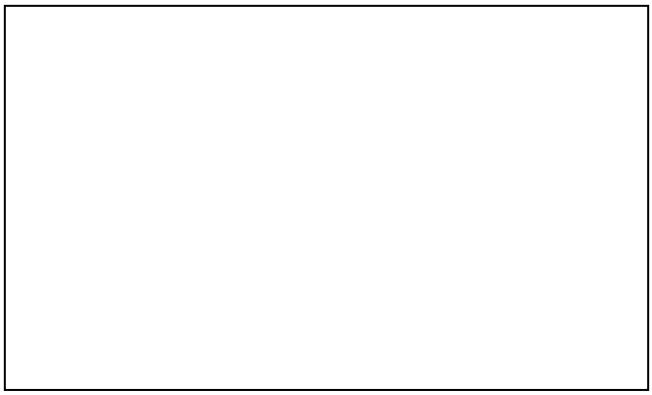
Authorised

Dealer



Intesis software

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